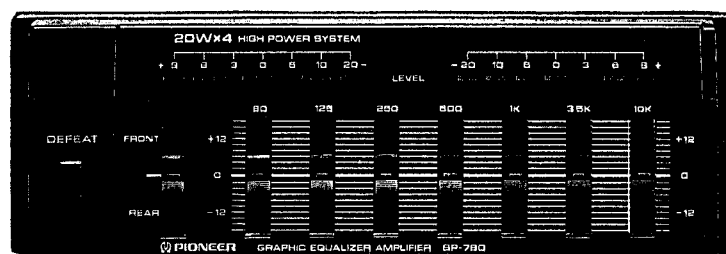


GRAPHIC EQUALIZER/AMPLIFIER

# BP-780



LFDNR. 41

 **PIONEER®**

## Bedienungsanleitung

# Features

## A Maximum Output of 20W×4 Channel High Power

Sound with power to spare is provided by 20W×4 channel high power. A BPTL circuit ensures low distortion as well as compensation for frequency characteristics.

## 7 Band Level Control

Level can be adjusted at each of the following frequencies: 60Hz, 125Hz, 250Hz, 500Hz, 1kHz, 3.5kHz and 10kHz to obtain high quality sound not possible with an ordinary tone control. Thus, you can adjust the system output to match your car's acoustic characteristics.

## Built-In Fader Control

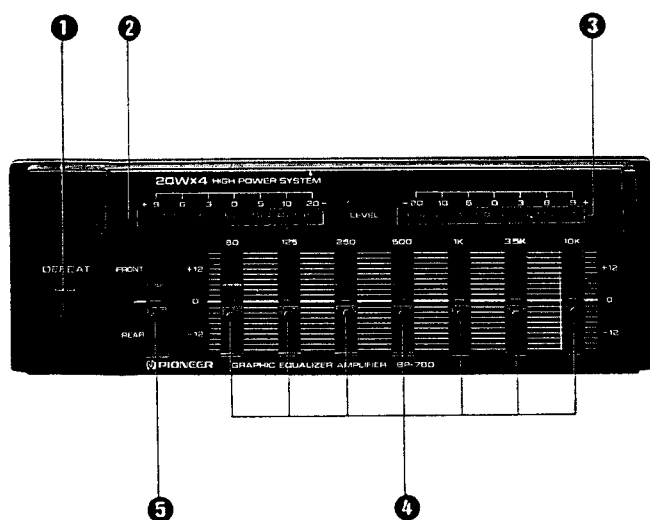
The volume of the front and rear speakers can be adjusted to suit the seating conditions in the vehicle.

## Level Indicator

Left and right channel output levels can be determined at a glance of the 7-point green, orange and red display.

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# Nomenclature and Use



## ① Equalizer Switch (DEFEAT)

Press to activate the equalizer control function and illuminate the indicator on the equalizer control lever.

## ② Lch Level Indicator

## ③ Rch Level Indicator

Green, orange and red indicators illuminate corresponding to the left/right output levels.

## ④ Equalizer Control

Slides up and down to allow adjustment to suit both the music and individual tastes. Pressing the equalizer switch causes each indicator to illuminate.

## ⑤ Fader Control

Raising the lever gradually decreases the volume of the rear speakers, while lowering it gradually decreases the volume of the front speakers. Adjust the volume of the front and rear speakers.

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# Connecting the Units

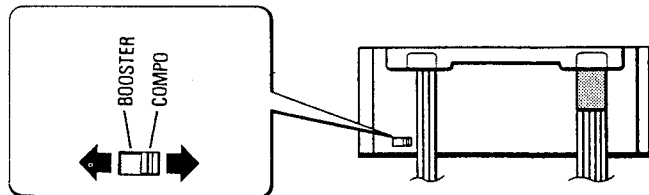
Connect the components correctly as shown in the diagram.

- Test-connect all components before securing them into place. Test-operate your entire car stereo system to ensure that there are no faulty wiring connections between this unit and the rest of your car stereo system.
- Be sure to connect only a single component as shown in the connection diagram. If two or more components are connected, internal circuitry may be damaged or an accident may occur.
- Speakers connected to this unit must be high power type with over 20W maximum input power and have impedance between 4 and 8 ohms. Be aware of the fact that using a speaker other than the one specified can cause the speaker to be damaged.
- A special BPTL circuit is used to be sure that you do not connect the speaker directly to ground nor join the left and right speaker (—) leads.
- For detailed information concerning connections between different components and this unit consult their respective instruction manuals and follow those recommendations precisely.
- Be sure not to remove the cap on the red lead (female plug) of this unit when not in use to prevent shorting.
- Wire all connecting cords so that they stay well clear of high-temperature areas such as the heater exhaust port.

- To ensure that all components used in combination with this unit operate properly, be sure to wire the main power supply cable (red) correctly to the respectively determined points. Failure to do so or errors in this process will result in total inoperation.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.

## Input Selector

Be sure to set the input selector before wiring. (Fig. 1)



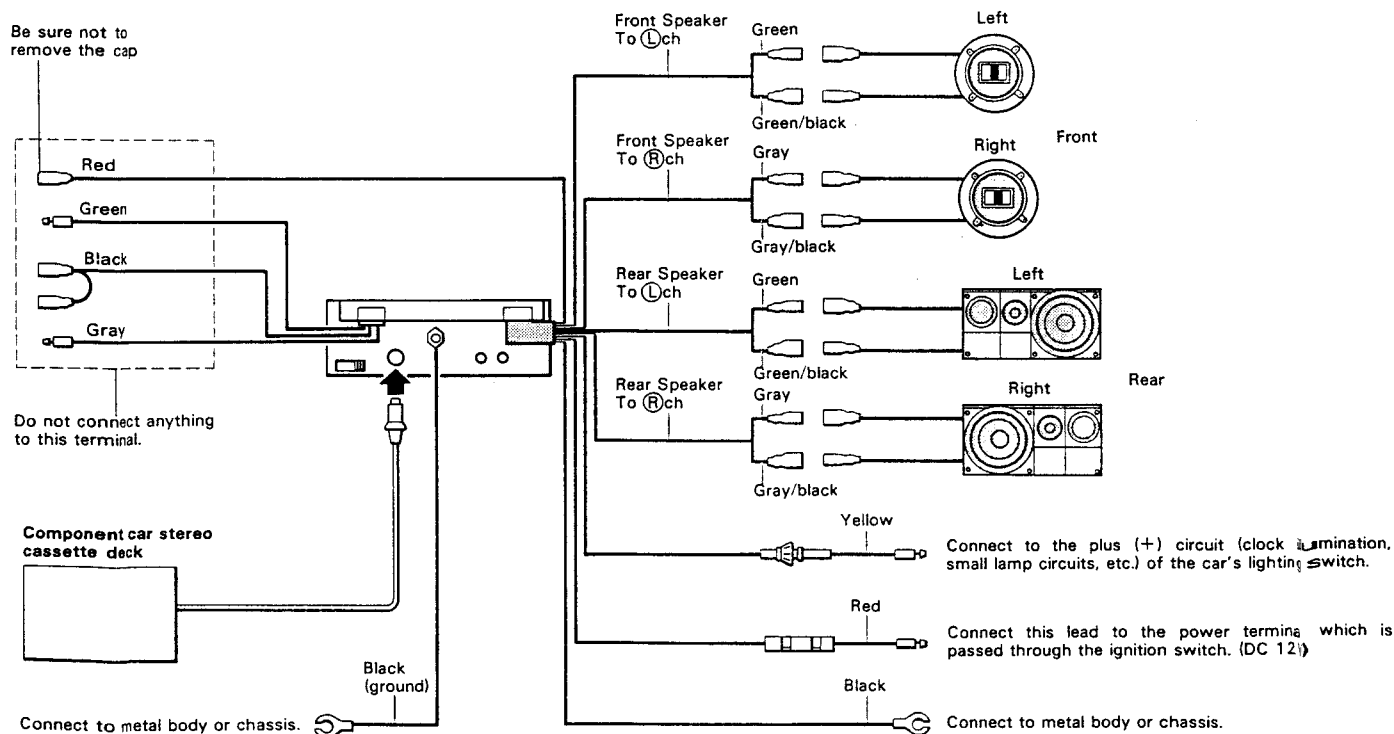
**COMPO:** When connecting the unit with a component car stereo.

**BOOSTER:** When connecting the unit with a regular car stereo.

Fig. 1

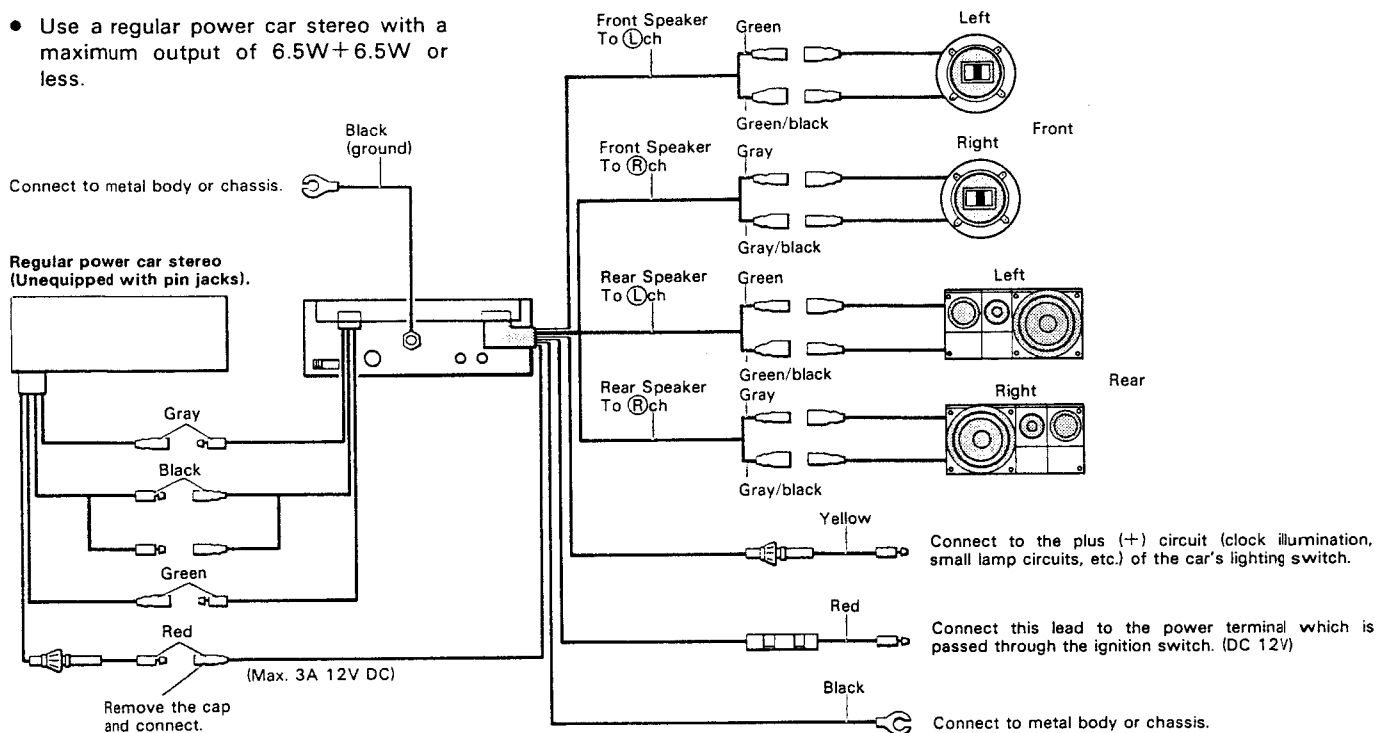
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## When Combined with a Component Car Stereo



## When Combined with a Regular Car Stereo

- Use a regular power car stereo with a maximum output of 6.5W+6.5W or less.



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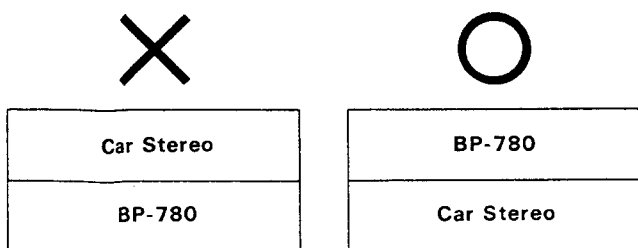
## Installation

- Be sure to use the parts supplied and install the unit securely. If parts other than those supplied (specified) are used, they may loosen or cause damage internal parts.
- Be sure to install the unit in places where the driver is not bothered and where there is no danger of passengers being injured in case of sudden stops.
- Be sure to consult your dealer before making any holes in the car.
- Make sure to take off the (-) side connector on the car battery to prevent short circuits.

### Installation Cautions

This unit features a built-in high-power amplifier, so when installed in a stacked configuration with a separately sold car stereo, be sure to always position this unit on the top. When this unit is installed below a car stereo, the heat generated can cause damage to cassette tapes.

### Example Installation



### Before Installation

- First, be sure you have the tools you will need. (Fig. 1)
- To prevent shorts, be sure to disconnect the negative battery terminal. (Fig. 2)

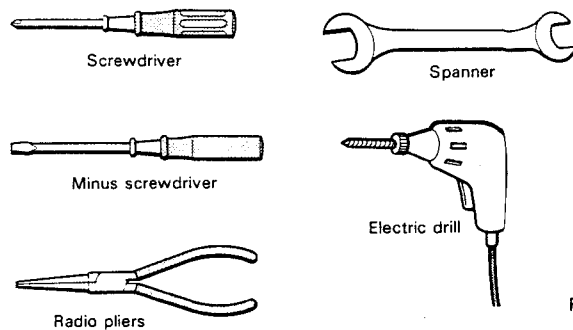


Fig. 1

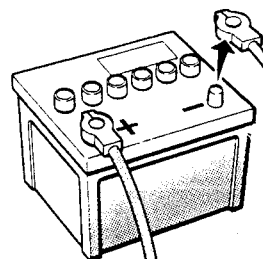


Fig. 2

## Installation below the Dashboard

1. After deciding on the installation location, use a felt pen to mark the places where holes are to be made. (Fig. 1)
2. Use an electric drill to drill 3 or 4 holes near the marked places where holes are to be made. (Fig. 2)
3. Start mounting screw installation. (Fig. 3)

4. Install the mounting angle and strap on the dashboard. (Fig. 4)
5. Install the ground lead and this unit. (Fig. 5)
6. When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the minus battery cable.

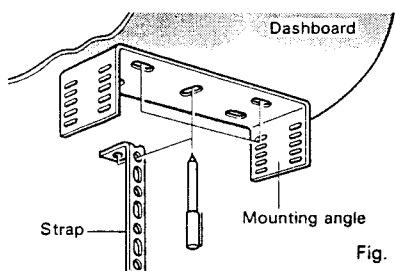


Fig. 1

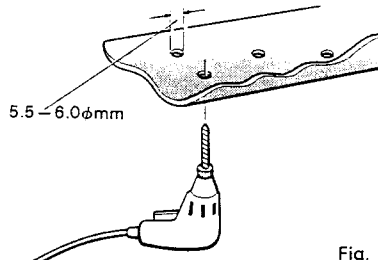


Fig. 2

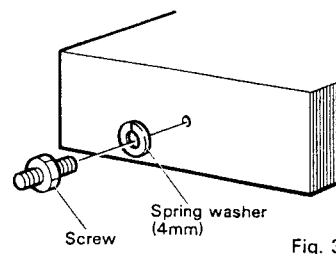


Fig. 3

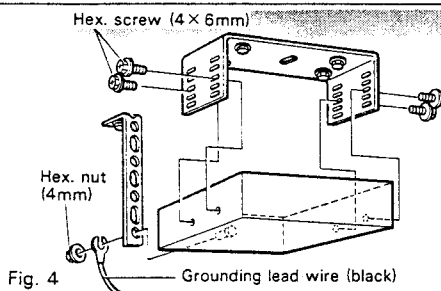
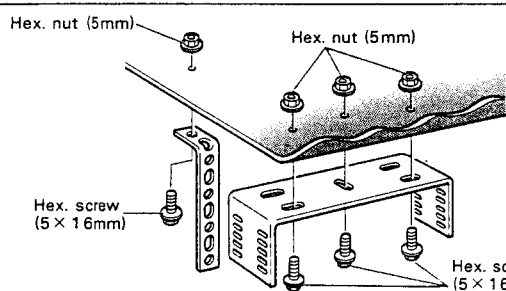


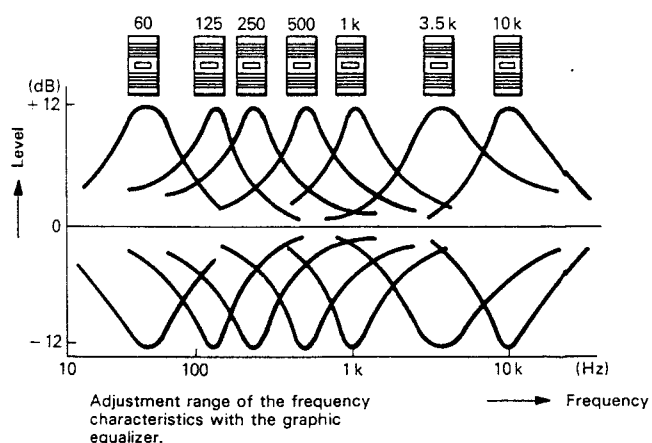
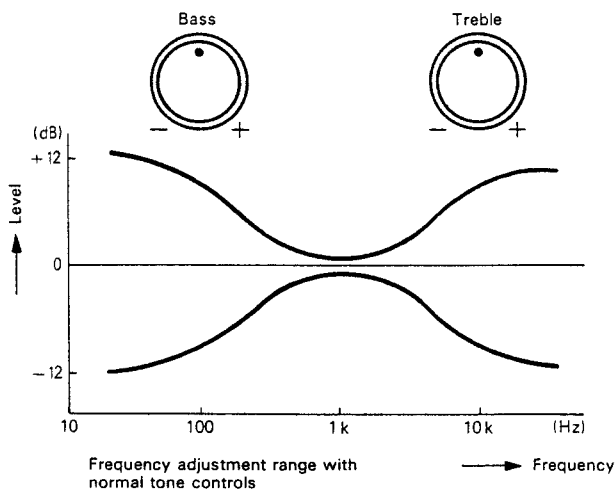
Fig. 4

Fig. 5

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## Frequency Adjustment Range with the Graphic Equalizer

Since each frequency level of the graphic equalizer can be increased or decreased, fine control of the sound is possible.



## Precautions

## Specifications

- To assure proper operation of the unit, keep the vehicle interior temperature within a normal range by using the vehicle's air conditioner or heater.
- Enough care must be taken against battery overdischarge caused by long operation of the set at a high sound level when the engine is not running or is idling.
- When replacing the fuse, replace it with a fuse having the correct capacity.
- Dust the heat sinks occasionally so that they will not become clogged.

In case of trouble

When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

Power source	14.4V DC (10.8—15.6V allowable)
Grounding system	Negative type
Max. current consumption	8A
Dimensions	150(W) × 50(H) × 150(D)mm
Weight	1.3kg

Maximum power output	20W×4
Continuous power output	16W×4 (1% dist. at 1kHz)
Load impedance	4Ω (4—8Ω allowable)
Frequency response	20—50,000Hz (±3dB)
Signal-to-noise ratio	90dB (IEC-A network, at 1W)
Distortion	0.5% (at 1.5W, 1kHz)
Input level	COMPO: 70mV/20kΩ BOOSTER: 3V/120Ω
Equalization frequency	60Hz, 125Hz, 250Hz, 500Hz, 1kHz, 3.5kHz, 10kHz
Gain	0dB
Equalization range	±12dB

**Note:**

Specifications and the design are subject to possible modification without notice due to improvements.